

2875
DP

AMTH-101US

PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln. No: 10/536,821
Applicant: Andrew Douglas Bankhead
Filed: May 27, 2005
Title: SURFACE PROFILING APPARATUS
TC/A.U.: 2875
Examiner:

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

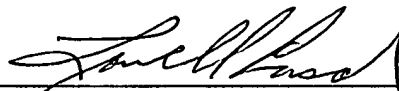
Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO/SB/08A and PTO/SB/08B submitted herewith. A copy of U.S. Patent Application No. 10/507,837 and all of the "Foreign Patent Documents" and the "Non-Patent Literature Documents" listed on the PTO/SB/08A and PTO/SB/08B are enclosed.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made.

This Information Disclosure Statement is being filed before mailing of the first Official Action. No first Official Action has yet been received and it is presumed that none has yet been mailed. Therefore, no fee or statement is required. 37 C.F.R. § 1.97(b).

Respectfully submitted,



Christopher R. Lewis, Reg. No. 36,201
Lowell L. Carson, Reg. No. 45,548
Attorneys for Applicant

LLC/lrb

Enclosures: PTO/SB/08A and PTO/SB/08B
Copy of thirteen (13) references

Dated: October 27, 2005

P.O. Box 980
Valley Forge, PA 19482-0980
(610) 407-0700

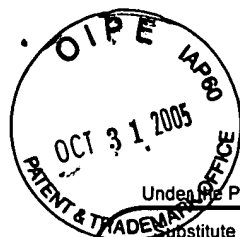
The Commissioner for Patents is hereby authorized to charge payment to Deposit Account No. 18-0350 of any fees associated with this communication.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

October 27, 2005


Lisa Bennett

LRB_I:\AMTH\101US\IDS-001.DOC



PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

SHEET 1 of 2

Complete if Known

Application Number	10/536,821
Filing Date	
First Named Inventor	Andrew D. Bankhead
Art Unit	2875
Examiner Name	
Attorney Docket No.	AMTH-101US

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	1	US-10/507,837 (filed 5/23/05)		Bankhead et al.	
	2	US-2003/0117632-A1	06-26-2003	Golini et al.	
	3	US-6,552,806-B1	04-22-2003	Swinford et al.	
	4	US,6,545,761-B1	04-08-2003	Aziz et al.	
	5	US-2003/0011784-A1	01-16-2003	De Groot et al.	
	6	US-6,345,107-B1	02-05-2002	Scott	
	7	US-2001/0050773-A1	12-13-2001	De Groot et al.	
	8	US-6,215,555-B1	04-10-2001	Chivers	
	9	US-6,191,862-B1	02-20-2001	Swanson et al.	
	10	US-6,084,671	07-04-2000	Holcomb	
	11	US-6,031,928	02-29-2000	Scott	
	12	US-6,028,670	02-22-2000	Deck	
	13	US-5,907,404	05-25-1999	Marron et al.	
	14	US-5,706,085	01-06-1998	Blossey et al.	
	15	US-5,355,221	10-11-1994	Cohen et al.	
	16	US-5,321,501	06-14-1994	Swanson et al.	
	17	US-5,112,129	05-12-1992	Davidson et al.	
	18	US-4,845,356	07-04-1989	Baker	
	19	US-4,818,110	04-04-1989	Davidson	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date (MM-DD-YYYY)	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	20	WO-2004/048886-A1	06-10-2004	Taylor Hobson Limited		
	21	WO-01/42735-A1	06-14-2001	Oti Ophthalmic Technologies, Inc.		<input type="checkbox"/>
	22	WO-94/18523	08-18-1994	Zygo Corporation		<input type="checkbox"/>
	23	WO-93/16631	09-02-1993	Phoenix Laser Systems, Inc.		<input type="checkbox"/>

Examiner
SignatureDate
Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

¹Applicant's unique citation designation number (optional).

²See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04.

³Enter Office that issued the document, by the two-letter code (WIPO Standard St.3).

⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

⁶Applicant is to place a check mark here if English language translation is attached.

The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

Application Number	10/536,821
Filing Date	
First Named Inventor	Andrew Douglas
Art Unit	2875
Examiner Name	
Attorney Docket No.	AMTH-101US

SHEET 2 of 2

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	24	FRIEDHEIM BECKER et al., "Automatic evaluation of interferograms," <i>SPIE</i> , Vol. 359, Applications of Digital Image Processing IV (1982), pp. 386 - 393.	<input type="checkbox"/>
	25	LAWRENCE MERTZ, "Real-time fringe-pattern analysis," <i>Applied Optics</i> , Vol. 22, No. 10, 15 May 1983, pp. 1535 - 1539.	<input type="checkbox"/>
	26	KATHERINE CREATH, "Step height measurement using two-wavelength phase-shifting interferometry," <i>Applied Optics</i> , Vol. 26, No. 14, 15 July 1987, pp. 2810 - 2815.	<input type="checkbox"/>
	27	PETER de GROOT et al., "Three-dimensional imaging by sub-Nyquist sampling of white-light interferograms," <i>Optic Letters</i> , Vol. 18, No. 17, September 1, 1993, pp. 1462 - 1464.	<input type="checkbox"/>
	28	BHARAT BHUSHAN et al., "Measurement of surface topography of magnetic tapes by Mirau interferometry," <i>Applied Optics</i> , Vol. 24, No. 10, 15 May 1985, pp. 1489 - 1497.	<input type="checkbox"/>
	29	PAUL F. FORMAN et al., "The Zygo interferometer system," <i>SPIE</i> , Vol. 192, Interferometry (1979), pp. 41 - 48.	<input type="checkbox"/>
	30	KIERAN G. LARKIN, "Topics in Multi-dimensional Signal Demodulation," A Thesis Submitted to the Faculty of Science in the University of Sydney, December 2000.	<input type="checkbox"/>
	31	BYRON S. LEE et al., "Profilometry with a coherence scanning microscope," <i>Applied Optics</i> , Vol. 29, No. 26, 10 September 1990, pp. 3784-3788.	<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

¹Applicant's unique citation designation number (optional).

²Applicant is to place a check mark here if English language translation is attached.

The collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission 5*

Application Number	10/536,821
Filing Date	May 27, 2005
First Named Inventor	Andrew Douglas Bankhead
Art Unit	2875
Examiner Name	
Attorney Docket No.	AMTH-101US

ENCLOSURES (Check all that apply)

- | | | |
|---|--|--|
| <input type="checkbox"/> Fee Transmittal Form
<input type="checkbox"/> Fee Attached

<input type="checkbox"/> Amendment/Reply
<input type="checkbox"/> After Final
<input type="checkbox"/> Affidavits/Declaration(s)

<input type="checkbox"/> Extension of Time Request

<input type="checkbox"/> Express Abandonment Request

<input checked="" type="checkbox"/> Information Disclosure Statement

<input type="checkbox"/> Certified Copy of Priority Document(s)

<input type="checkbox"/> Response to Missing Parts/
Incomplete Application
<input type="checkbox"/> Response to Missing Parts
under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Drawing(s)

<input type="checkbox"/> Licensing-related Papers

<input type="checkbox"/> Petition

<input type="checkbox"/> Petition to Convert to a
Provisional Application

<input type="checkbox"/> Power of Attorney, Revocation,
Change of Correspondence
Address

<input type="checkbox"/> Terminal Disclaimer

<input type="checkbox"/> Request for Refund

<input type="checkbox"/> CD, Number of CD(s) _____
<input type="checkbox"/> Landscape Table on CD | <input type="checkbox"/> After Allowance Communication
to TC

<input type="checkbox"/> Appeal Communication to Board
of Appeals and Interferences

<input type="checkbox"/> Appeal Communication to TC
(Appeal Notice, Brief, Reply
Brief)

<input type="checkbox"/> Proprietary Information

<input type="checkbox"/> Status Letter

<input checked="" type="checkbox"/> Other Enclosure(s) (please
identify below):

Copy of thirteen (13) references |
|---|--|--|

Remarks:

*The total number of pages listed above does not include the number of pages of the references submitted along with the Information Disclosure Statement.

SIGNATURE OF APPLICANT, ATTORNEY OR AGENT

Firm Name	RatnerPrestia		
Signature			
Printed Name	Lowell L. Carson		
Date	October 27, 2005	Registration No.	48,548

CERTIFICATE OF TRANSMISSION / MAILING

I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:

Signature			
Typed or Printed Name	Lisa Bennett	Date	October 27, 2005

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Office, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, ALEXANDRIA, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.